

International application No.
PCT/JP03/13987

"A" document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such			i	FCI/U	P03/13987	
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int. cl? H04N5/76-5/956 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitesuyo Shinan Koho 1922-1996 (Torocku Jitesuyo Shinan Koho 1994-2004 Acked Jitsuyo Shinan Koho 1994-2004 Jitsuyo Shinan Koho 1994-	A. CLASSIF	FICATION OF SUBJECT MATTER	<u> </u>			
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int. C1	Inc.CI HU4N5/93					
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int. C1						
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Int. C1	According to International Patent Classification (IPC) or to both national classification and IPC					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922–1996 Zoroku Jitsuyo Shinan Koho 1994–2004 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y JP 8–102910 A (NEC COrp.), 16 April, 1996 (16.04.96), Full text; Fig. 1 (Family: none) Y JF 9-224208 A (NEC Corp.), 26 August, 1997 (26.08.97), Full text; Fig. 10 & EP 790740 Al & US 6012089 A A JP 10-200881 A (Matsushita Electric Industrial Co., Ltd.), 31 July, 1998 (31.07.98), Full text; Figs. 1 to 10 (Family: none) Forther documents are listed in the continuation of Box C. See patent family annex. * Special categories of cited documents: "To document which may throw doubts on priority claim(ty) or which is cited to establish the publication date of another citation or other means "To document which may throw doubts on priority claim(ty) or which is cited to establish the publication date of another citation or other means "To document which may throw doubts on priority claim(ty) or which is cited to establish the publication date of another citation or other means Occurrent published prior to the international filing date or other means Occurrent published prior to the international filing date but later means document published prior to the international filing date but later To document member of the same patent documents, such combination being obvious to a person skilled in the art which may throw doubts on priority claim(ty) or which is cited to establish the publication date of another citation or other means To document which may throw doubts on priority claim(ty) or which is cited to establish the publication date of another citation or other means To document which may throw doubts on priority claim(ty)						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922–1996 Zoroku Jitsuyo Shinan Koho 1994–2004 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y JP 8–102910 A (NEC COrp.), 16 April, 1996 (16.04.96), Full text; Fig. 1 (Family: none) Y JF 9-224208 A (NEC Corp.), 26 August, 1997 (26.08.97), Full text; Fig. 10 & EP 790740 Al & US 6012089 A A JP 10-200881 A (Matsushita Electric Industrial Co., Ltd.), 31 July, 1998 (31.07.98), Full text; Figs. 1 to 10 (Family: none) Forther documents are listed in the continuation of Box C. See patent family annex. * Special categories of cited documents: "To document which may throw doubts on priority claim(ty) or which is cited to establish the publication date of another citation or other means "To document which may throw doubts on priority claim(ty) or which is cited to establish the publication date of another citation or other means "To document which may throw doubts on priority claim(ty) or which is cited to establish the publication date of another citation or other means Occurrent published prior to the international filing date or other means Occurrent published prior to the international filing date but later means document published prior to the international filing date but later To document member of the same patent documents, such combination being obvious to a person skilled in the art which may throw doubts on priority claim(ty) or which is cited to establish the publication date of another citation or other means To document which may throw doubts on priority claim(ty) or which is cited to establish the publication date of another citation or other means To document which may throw doubts on priority claim(ty)	Minimum documentation searched (classification system followed by classification symbols)					
Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. See patent family annex. The document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other reasons (es specified) Special categories of cited documents are considered to one of considered to the continuation of Box C. See patent family annex. The document special priority date claimed of the comment of particular relevance; the claimed inventive sub when the document is combined with one or more other tables the comment of particular relevance; the claimed inventive sub when the document is combined with one or more other tables are combined with one or more other areason and comment understand the principle or the internation cannot be combined with one or more other areason and comment understand the principle or the internation combined with one or more other areason and comment understand the principle or the combined with one or more other and the comment is combined with one or more other and the comment is combined with one or more other and the comment is combined with one or of the sacetual completion of the international search combined with one o	Int.C1' H04N5/76-5/956					
Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. See patent family annex. The document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other reasons (es specified) Special categories of cited documents are considered to one of considered to the continuation of Box C. See patent family annex. The document special priority date claimed of the comment of particular relevance; the claimed inventive sub when the document is combined with one or more other tables the comment of particular relevance; the claimed inventive sub when the document is combined with one or more other tables are combined with one or more other areason and comment understand the principle or the internation cannot be combined with one or more other areason and comment understand the principle or the internation combined with one or more other areason and comment understand the principle or the combined with one or more other and the comment is combined with one or more other and the comment is combined with one or more other and the comment is combined with one or of the sacetual completion of the international search combined with one o						
Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. Special categories of cited documents are listed in the continuation of Box C. See patent family annex. The document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other reasons (es specified) Special categories of cited documents are considered to one of considered to the continuation of Box C. See patent family annex. The document special priority date claimed of the comment of particular relevance; the claimed inventive sub when the document is combined with one or more other tables the comment of particular relevance; the claimed inventive sub when the document is combined with one or more other tables are combined with one or more other areason and comment understand the principle or the internation cannot be combined with one or more other areason and comment understand the principle or the internation combined with one or more other areason and comment understand the principle or the combined with one or more other and the comment is combined with one or more other and the comment is combined with one or more other and the comment is combined with one or of the sacetual completion of the international search combined with one o						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y JP 8-102910 A (NEC Corp.), 16 April, 1996 (16.04.96), Full text; Fig. 1 (Family: none) Y JP 9-224208 A (NEC Corp.), 26 August, 1997 (26.08.97), Full text; Fig. 1 & EP 790740 Al	1994-2004					
C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y JP 8-102910 A (NEC Corp.), 16 April, 1996 (16.04.96), Full text; Fig. 1 (Family: none) Y JP 9-224208 A (NEC Corp.), 26 August, 1997 (26.08.97), Full text; Fig. 10 & EP 790740 Al & US 6012089 A A JP 10-200881 A (Matsushita Electric Industrial Co., Ltd.), 31 July, 1998 (31.07.98), Full text; Figs. 1 to 10 (Family: none) Further documents are listed in the continuation of Box C. * Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance and the principle of theory underlying the invention considered to involve an inventive step when the document is taken alone of course of the section (as specified) Company to the international filing date or priority date and not in considered to involve an inventive step when the document is taken alone of the section (as specified) Comment published prior to the international filing date but later than the priority date claimed invention cannot be considered to involve an inventive step when the document is such comments, such comments and inventive step when the document is combined with one or more other such documents, such comments than the priority date claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such comments of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such comments are listed to involve an inventive step when the document is combined with one or more other such documents, such comments are listed in the entremational filing of the international search report	1576-2004					
Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y	Electronic data	a base consulted during the international search (na	me of data base and, whe	re practicable, sea	rch terms used)	
Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y						
Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y	·					
Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Y	C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Y JP 8-102910 A (NEC Corp.), 16 April, 1996 (16.04.96), Full text; Fig. 1 (Family: none) Y JP 9-224208 A (NEC Corp.), 26 August, 1997 (26.08.97), Full text; Fig. 10 & EP 790740 Al & US 6012089 A A JP 10-200881 A (Matsushita Electric Industrial 1,2 Co., Ltd.), 31 July, 1998 (31.07.98), Full text; Figs. 1 to 10 (Family: none) Further documents are listed in the continuation of Box C. * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance: "E" earlier document bublished on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention considered to be of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document if saken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document if saken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document if sake alone document of particular relevance; the claimed involve an inventive step when the document if sake alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document if sake alone document of particular relevance; the claimed invention cannot be						
16 April, 1996 (16.04.96), Full text; Fig. 1 (Family: none)			ppropriate, of the relevar	it passages	Relevant to claim No.	
Full text; Fig. 1 (Family: none) Y	1	16 April 1996 (16 04 96)			1,2	
Y JP 9-224208 A (NEC Corp.), 26 August, 1997 (26.08.97), Full text; Fig. 10 & EP 790740 Al & US 6012089 A A JP 10-200881 A (Matsushita Electric Industrial 1,2 Co., Ltd.), 31 July, 1998 (31.07.98), Full text; Figs. 1 to 10 (Family: none) Further documents are listed in the continuation of Box C. * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance; the claimed invention cannot be considered to establish the publication date of another citation or other special reason (as specified) "O" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search Date of the actual completion of the international search 1, 2 See patent family annex. "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search Date of the actual completion of the international search Date of the actual completion of the international search		Full text; Fig. 1	•••		• .	
A JP 10-200881 A (Matsushita Electric Industrial 1,2 Co., Ltd.), 31 July, 1998 (31.07.98), Full text; Figs. 10 See patent family annex. Further documents are listed in the continuation of Box C. Further documents are listed on the continuation of Box C. Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered to involve an inventive step when the document is taken alone document referring to an oral disclosure, use, exhibition or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document referring to an oral disclosure, use, exhibition or other means document referring to an oral disclosure, use, exhibition or other than the priority date claimed Date of the actual completion of the international search Date of the actual completion of the international search Date of mailing of the international search report	ˈ <u> </u>				,	
A JP 10-200881 A (Matsushita Electric Industrial 1,2 Co., Ltd.), 31 July, 1998 (31.07.98), Full text; Figs. 10 See patent family annex. Further documents are listed in the continuation of Box C. Further documents are listed on the continuation of Box C. Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered to involve an inventive step when the document is taken alone document referring to an oral disclosure, use, exhibition or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document referring to an oral disclosure, use, exhibition or other means document referring to an oral disclosure, use, exhibition or other than the priority date claimed Date of the actual completion of the international search Date of the actual completion of the international search Date of mailing of the international search report	v	TP 9-224208 A (NEC Comm.)				
Full text; Fig. 10 & EP 790740 Al & US 6012089 A A JP 10-200881 A (Matsushita Electric Industrial 1,2 Co., Ltd.), 31 July, 1998 (31.07.98), Full text; Figs. 1 to 10 (Family: none) Further documents are listed in the continuation of Box C. * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance: "E" earlier document but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered to evolve an inventive step when the document of particular relevance; the claimed invention cannot be special reason (as specified) Coursent which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) Coursent referring to an oral disclosure, use, exhibition or other means of the actual completion of the international filing date but later than the priority date claimed Coursent which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) Coursent published prior to the international filing date but later than the priority date claimed Coursent which may throw doubts on priority claim(s) or which is considered novel or cannot be considered to involve an inventive step when the document set when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot b	_ [26 August, 1997 (26.08.97).			1,2	
A JP 10-200881 A (Matsushita Electric Industrial 1,2 Co., Ltd.), 31 July, 1998 (31.07.98), Full text; Figs. 1 to 10 (Family: none) Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance: "E" arlier document but published on or after the international filing date "E" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report	1	Full text; Fig. 10				
Co., Ltd.), 31 July, 1998 (31.07.98), Full text; Figs. 1 to 10 (Family: none) See patent family annex. * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" earlier document but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document published prior to the international filing date but later than the priority date claimed "O" document published prior to the international filing date but later than the priority date claimed "E" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is document published after the international filing date or priority date and not in conflict with the application of the considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is document of particular relevance; the claimed invention canno		& EP 790740 A1 & US	6012089 A		,	
Co., Ltd.), 31 July, 1998 (31.07.98), Full text; Figs. 1 to 10 (Family: none) See patent family annex. * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" earlier document but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document published prior to the international filing date but later than the priority date claimed "O" document published prior to the international filing date but later than the priority date claimed "E" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is document published after the international filing date or priority date and not in conflict with the application of the considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is document of particular relevance; the claimed invention canno	A	JP 10-200881 A (Matsushita	Flectric Induc	tenial .		
Further documents are listed in the continuation of Box C. * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "E" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report) (Co., Ltd.),			1,2	
Further documents are listed in the continuation of Box C. * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search See patent family annex. "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is accombined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report		31 July, 1998 (31.07.98),				
Further documents are listed in the continuation of Box C. * Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search "See patent family annex. "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention and document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention and document of particular relevance; the claimed invention cannot		Full text; Figs. 1 to 10				
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve		(1 dill 1) 11011e)				
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve						
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve				ļ		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve				1	٠	
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other means document referring to an oral disclosure, use, exhibition or other than the priority date claimed "E" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of the actual completion of the international search Date of mailing of the international filing understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family	Further do	ocuments are listed in the continuation of Box C.	See patent family	annex.		
considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "Date of the actual completion of the international search priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such document member of the same patent family "A" "A" "B" "B" "C" "B" "C" "C"	* Special cat	egories of cited documents:	"T" later document pub	lished after the inter	national filing date or	
earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "A" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such document member of the same patent family "A" "A" "A" "A" "A" "A" "A" "	considered to b	be of particular relevance	priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be			
cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search step when the document is taken alone document is relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family	"E" earlier docu	ument but published on or after the international filing				
special reason (as specified) document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report	"L" document v	which may throw doubts on priority claim(s) or which is	step when the docu	ment is taken alone	ent is taken alone	
means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report	speciai reas	son (as specified)	"Y" document of partic	ular relevance; the cl	aimed invention cannot be	
than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report	means		combined with one	or more other such d	ocuments, such	
Date of the actual completion of the international search Date of mailing of the international search report	"P" document p	oublished prior to the international filing date but later	"&" document member	of the same patent fa	mily	
7 C M 1			Date of mailing of the international search report			
	16 Mar	ch, 2004 (16.03.04)	30 March, 2004 (30.03.04)			
. I			·	,		
Name and mailing address of the ISA/ Authorized officer	Name and mailin	ng address of the ISA/	Authorized officer			
Japanese Patent Office	Japane	se Patent Office				
Facsimile No. Telephone No.	Facsimile No.		Telephone No.			
Form PCT/ISA/210 (second sheet) (July 1998)						